

## 4HP22 Gearbox Filter Replacement on a 1990 E32 735

One task that frequently gets overlooked on these cars is the gearbox filter. If you are experiencing any gear shift/slip problems, or if the transmission oil smells a bit burnt this is a relatively cheap option before ripping the box to pieces. Mine most definitely shifted smoother after a filter & oil change.

### Tools required

A pair of axle stands, a jack (or ramps), socket set, allen key set, large adjustable or stilsons & something to drain the dirty oil into.

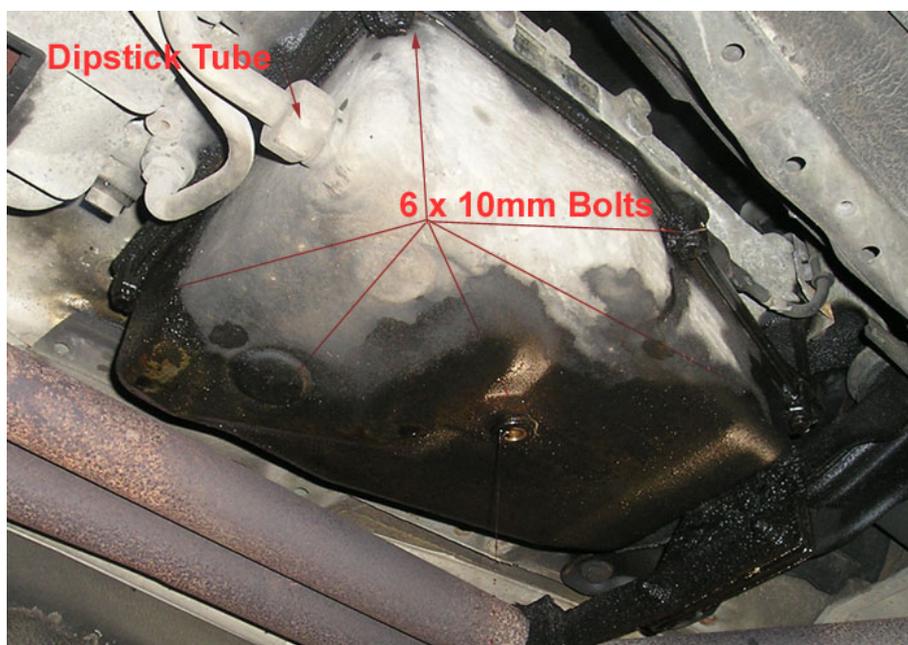
### Parts required

A new filter (about £14 from BMW) and comes with a new rubber sump gasket.  
Replacement ATF fluid Dextron III (a gallon from Motaquip £15)

### Time to complete

One hour if you take your time!

- You need to run the car for a couple of minutes moving the gear shifter through from P > 1.
- Raise the front of the car, slide under and find the gearbox! The first job is to drain the oil. This is where you need the allen key to remove the drain plug from the underside of the gearbox sump.  
**CAUTION – GEARBOX OIL MAY BE VERY HOT.**



- When the oil has finished draining, loosely replace the drain plug then unscrew the large nut securing the dipstick tube. (using the large adjustable metric spanner!)
- Now we can remove the 6 x 10 mm bolts shown above and lower the transmission sump.

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You should now be able to see the filter?

- Allen keys required again to remove the filter.
- At this stage you can crawl out from under the car, bringing the old filter with you and the sump.
- Examine the inside of the sump pan (pretty dirty ?) give it a good clean & wipe out, you should find a couple of magnets attached make sure you clean these as well.



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- Unwrap the new filter you should have :-

A brass washer – we can fit this to the drain plug and replace in the sump now.

A rubber 'O' ring – this is to replace the old one on the upside of the filter.

Back under the car with new filter, sump & gasket.

- Refitting is a reversal of the above procedure, ensuring the rubber 'O' ring is in place before bolting up the filter.



- Refill in accordance with <http://www.bmw7resource.co.uk/forum/index.php?topic=105.0>